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# NOTICE OF ALLOWANCE AND FEE(S) DUE

42717

7590

01/29/2007

HAYNES AND BOONE, LLP 901 MAIN STREET, SUITE 3100 DALLAS, TX 75202

| EXAMINER |                |  |  |  |
|----------|----------------|--|--|--|
| GEYE     | GEYER, SCOTT B |  |  |  |
| ART UNIT | PAPER NUMBER   |  |  |  |
| 2812     |                |  |  |  |

DATE MAILED: 01/29/2007

| APPLICATION NO. FILING DATE |            | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|-----------------------------|------------|----------------------|---------------------|------------------|
| 10/657 505                  | 09/08/2003 | Chii-Ming Wu         | TS01-1247           | 9336             |

TITLE OF INVENTION: METHOD OF MANUFACTURING A CONTACT INTERCONNECTION LAYER CONTAINING A METAL AND NITROGEN BY ATOMIC LAYER DEPOSITION FOR DEEP SUB-MICRON SEMICONDUCTOR TECHNOLOGY

| APPLN. TYPE    | SMALL ENTITY | ISSUE FEE DUE | PUBLICATION FEE DUE | PREV. PAID ISSUE FEE | TOTAL FEE(S) DUE | DATE DUE   |
|----------------|--------------|---------------|---------------------|----------------------|------------------|------------|
| nonprovisional | NO           | \$1400        | \$300               | \$0                  | \$1700           | 04/30/2007 |

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

#### HOW TO REPLY TO THIS NOTICE:

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If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

- A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.
- B. If the status above is to be removed, check box 5b on Part B Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

- A. Pay TOTAL FEE(S) DUE shown above, or
- B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.
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- III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

### PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE
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P.O. Box 1450
Alexandria, Virginia 22313-1450
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(571)-273-2885

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| CURRENT CORRESPONDE   | ENCE ADDRESS (Note: Use Bl                             | ock 1 for any change of address)                         | Fee(  | (s) Transmittal. Thi  | e cortificate cannot be used   | or domestic mailings of the for any other accompanying ent or formal drawing, must   |
| 42717   | 7590 01/29   | /2007  |   | Com   | tificate of Mailing or Tran  | emission   |
|   | D BOONE, LLP<br>EET, SUITE 3100<br>5202                |  | I he<br>Stat<br>addi<br>tran  | reby certify that the<br>es Postal Service we<br>ressed to the Mail<br>smitted to the USP | is Fec(s) Transmittal is being the sufficient postage for finition Stop ISSUE FEE address FO (571) 273-2885, on the  | ng deposited with the United rst class mail in an envelope above, or being facsimile date indicated below.   |
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|   |  |  |   |   |  | (Date)   |
| APPLICATION NO.   | FILING DATE  |  | FIRST NAMED INVENTOR  |   | ATTORNEY DOCKET NO.  | CONFIRMATION NO.   |
| 10/657,505  | 09/08/2003   |  | Chii-Ming Wu  |   | TS01-1247  | 9336   |
| TITLE OF INVENTION<br>BY ATOMIC LAYER D                         | : METHOD OF MANU<br>DEPOSITION FOR DEE                 | FACTURING A CONTA<br>P SUB-MICRON SEMIC                  | ACT INTERCONNECTIO<br>CONDUCTOR TECHNOI   | N LAYER CONTA<br>LOGY   | INING A METAL AND N  | ITROGEN  |
| APPLN. TYPE   | SMALL ENTITY   | ISSUE FEE DUE  | PUBLICATION FEE DUE   | PREV. PAID ISSU   | E FEE TOTAL FEE(S) DU  | E DATE DUE   |
| nonprovisional  | NO   | \$1400   | \$300   | \$0   | \$1700   | 04/30/2007   |
| EXAM  | INER   | ART UNIT   | CLASS-SUBCLASS  | <u> </u>  |  |  |
| GEYER,  | SCOTT B<br>ence address or indication                  | 2812   | 438-674000  2. For printing on the p  |   |  |  |
| "Fee Address" ind<br>PTO/SB/47; Rev 03-0<br>Number is required. | ication (or "Fee Address<br>2 or more recent) attach   | ned. Use of a Customer                                   | (1) the names of up to or agents OR, alternati (2) the name of a sing registered attorney or 2 registered patent attc listed, no name will be | vely,<br>le firm (having as a<br>agent) and the nam<br>omeys or agents. If<br>printed.    | member a 2es of up to  |  |
| DI EACE NOTE: He  | less an assignee is ident<br>h in 37 CFR 3.11. Com     | ified below no assignee                                  | THE PATENT (print or ty<br>data will appear on the p<br>of a substitute for filing an<br>(B) RESIDENCE: (CIT)                                 | atent. If an assign assignment.   |  | document has been filed for  |
| Please check the appropr  | riate assignee category of                             | r categories (will not be p                              | rinted on the patent):  | Individual 🗆 C  | orporation or other private g  | group entity Government  |
|   | are submitted:  No small entity discount # of Copies   | permitted)   | A check is enclosed.  Payment by credit ca  The Director is hereb   | rd. Form PTO-2038   | rge the required fee(s), any   | deficiency, or credit any  |
|   |  |  | overpayment, to Dep   | osit Account Numb   | er (enclose  | an extra copy of this form).   |
| 5. Change in Entity Sta   | ns SMALL ENTITY stat                                   | us. See 37 CFR 1.27.                                     |   |   | LL ENTITY status. See 37   |  |
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| Authorized Signature  |  |  |   | Date  |  |  |
|   |  |  |   | -   | No   |  |
| Alexandra, virginia 22.   | J1J-14JV.  |  |   |   | the public which is to file (a<br>minutes to complete, inclus<br>omments on the amount of<br>I Trademark Office, U.S. D<br>S. SEND TO: Commission<br>displays a valid OMB cont | and by the USPTO to process<br>ding gathering, preparing, and<br>time you require to complete<br>epartment of Commerce, P.O.<br>er for Patents, P.O. Box 1450<br>rol number. |
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|                 | BOONE, LLP      | GEYER, SCOTT B       |                         |                  |  |
|                 | EET, SUITE 3100 | •                    | ART UNIT                | PAPER NUMBER     |  |
| DALLAS, TX 7:   | 5202            |                      | 2812                    |                  |  |
|                 |                 |                      | DATE MAILED: 01/29/2007 |                  |  |

## Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 0 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 0 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.